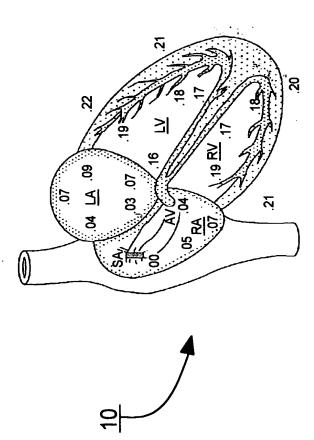
MEDTRONIC, INC.

TITLE: SYSTEM AND METHOD FOR BI-VENTRICULAR
FUSION PACING

APPLICANT: Hill SERIAL NO.: 10/000,474
DOCKET NO.: P-8968 SHEET 1 OF 7



MEDTRONIC, INC.
TITLE: SYSTEM AND METHOD FOR BI-VENTRICULAR
FUSION PACING
APPLICANT: Hill SERIAL NO.: 10/000,474
DOCKET NO.: P-8968 SHEET 2 OF 7

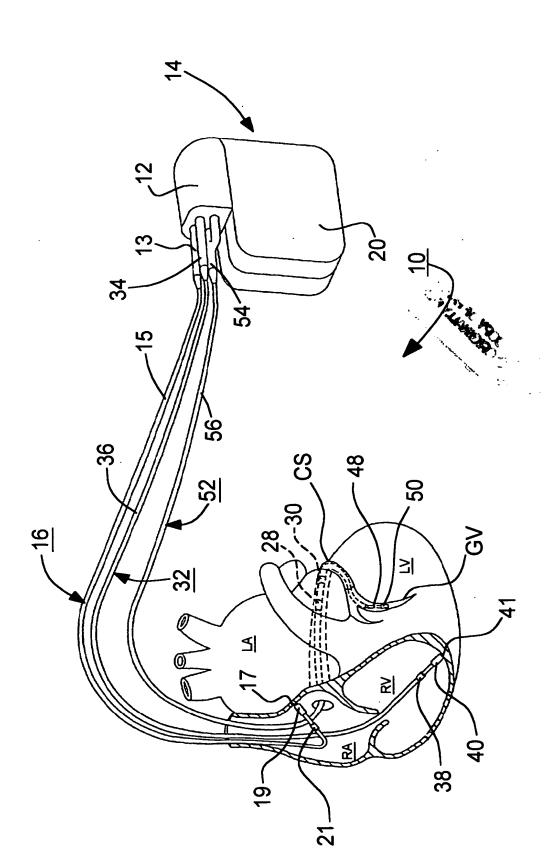
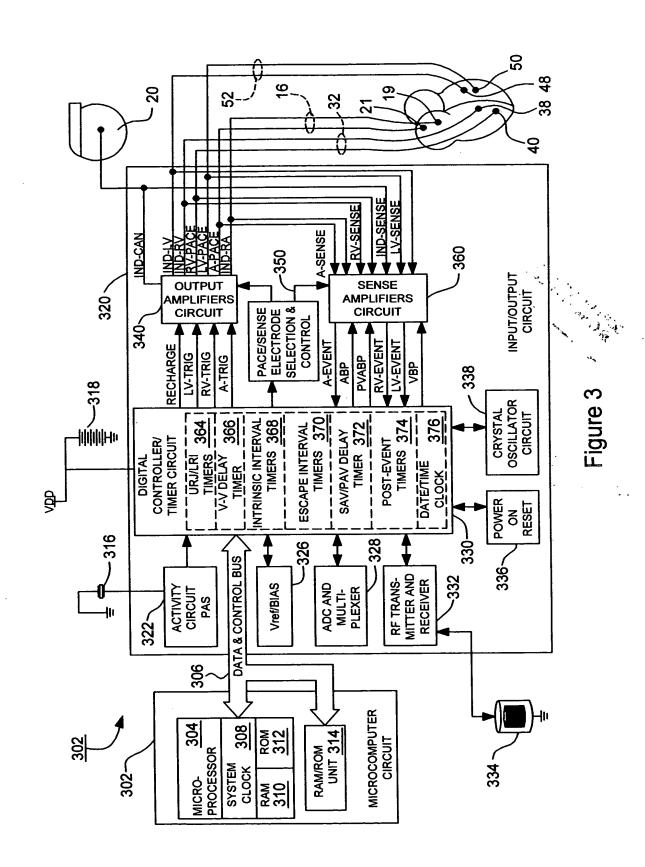


Figure 2

## MEDTRONIC, INC. TITLE: SYSTEM AND METHOD FOR BI-VENTRICULAI FUSION PACING APPLICANT: Hill SERIAL NO.: 10/000,474 DOCKET NO.: P-8968 SHEET 3 OF 7



**S116** 

MEDTRONIC, INC.
TITLE: SYSTEM AND METHOD FOR BI-VENTRICULAR
FUSION PACING
APPLICANT: Hill SERIAL NO.: 10/000,474
DOCKET NO.: P-8968 SHEET 4 OF 7

**DETERMINE OPTIMAL A-LVp & A-RVp DELAYS** S100 SELECT DETERMINED A-LVp DELAY AND A-RVp DELAY **S102** TIME OUT A-LVp DÈLAY &
DELIVER LV-PACE TO TIME OUT A-RVp DELAY & **DELIVER RV-PACE TO** LV UNLESS INHIBITED **RV UNLESS INHIBITED** S104 START TIME OUT OF V-A ESCAPE INTERVAL & POST-VENTRICULAR **BLANKING & REFRACTORY PERIODS** S108 NON-Yes REFRACTORY RV-EVENT OR LV-EVENT **S110** No NON-Yes REFRACTORY A-EVENT S118 **S112** No MEASURE RCP AND/OR A-A HEART RATE AND V-A No ADJUST A-RVp DELAY **ESCAPE INTERVAL** AND A-LVp DELAY TIME-OUT S114 Yes TIME OUT POST A-EVENT **BLANKING & DELIVER A-PACE TO RA AND/OR LA** 

Figure 4

**S120** 

**REFRACTORY PERIODS** 

## MEDTRONIC, INC. TITLE: SYSTEM AND METHOD FOR BI-VENTRICULAR FUSION PACING APPLICANT: HIII SERIAL NO.: 10/000,474 DOCKET NO.: P-8968 SHEET 5 OF 7

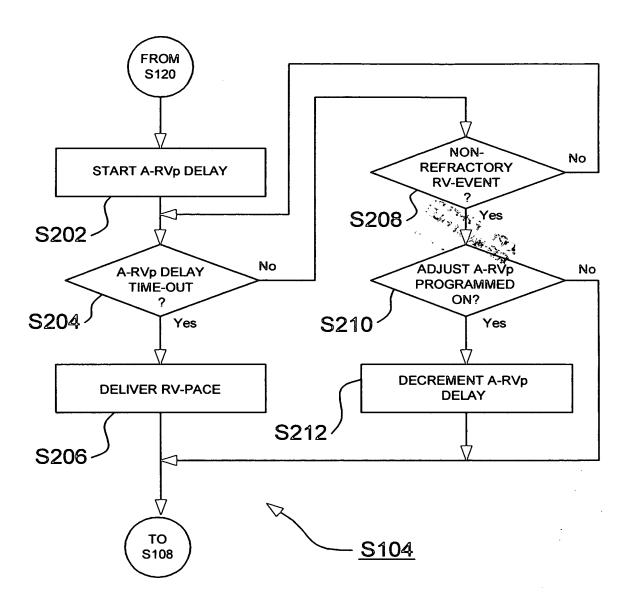


Figure 5



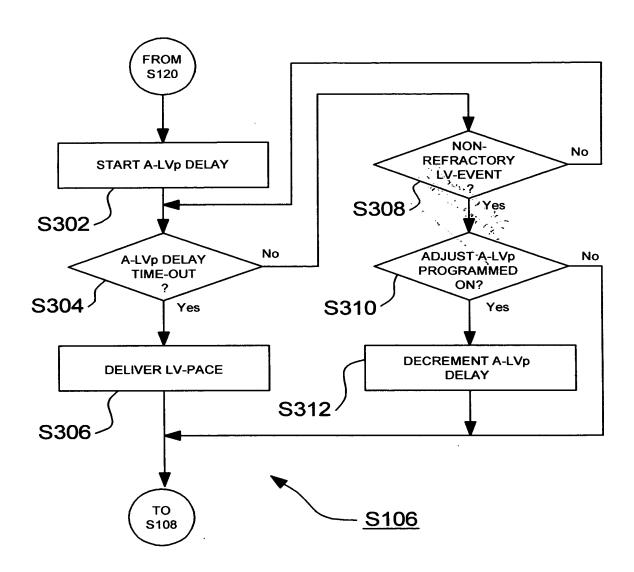


Figure 6

MEDTRONIC, INC.
TITLE: SYSTEM AND METHOD FOR BI-VENTRICULA
FUSION PACING
APPLICANT: Hill SERIAL NO.: 10/000.474
DOCKET NO.: P-8968 SHEET 7 OF 7

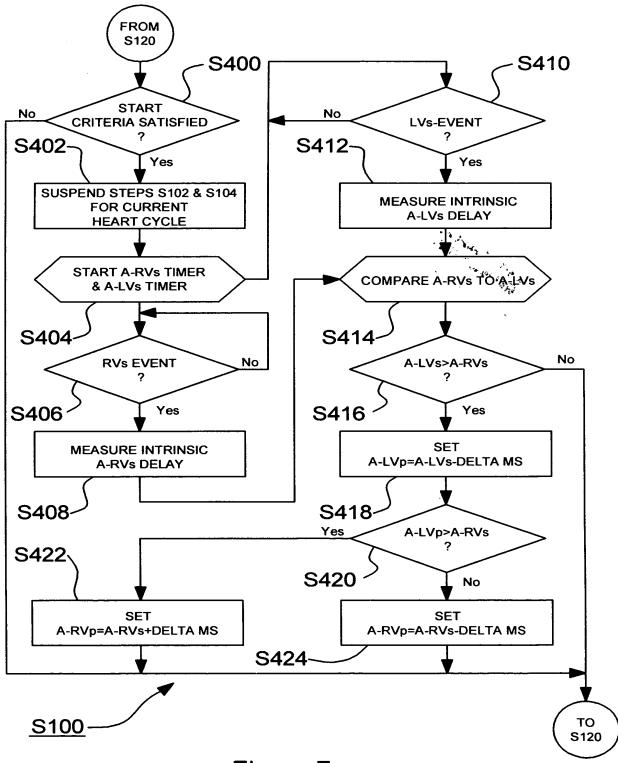


Figure 7